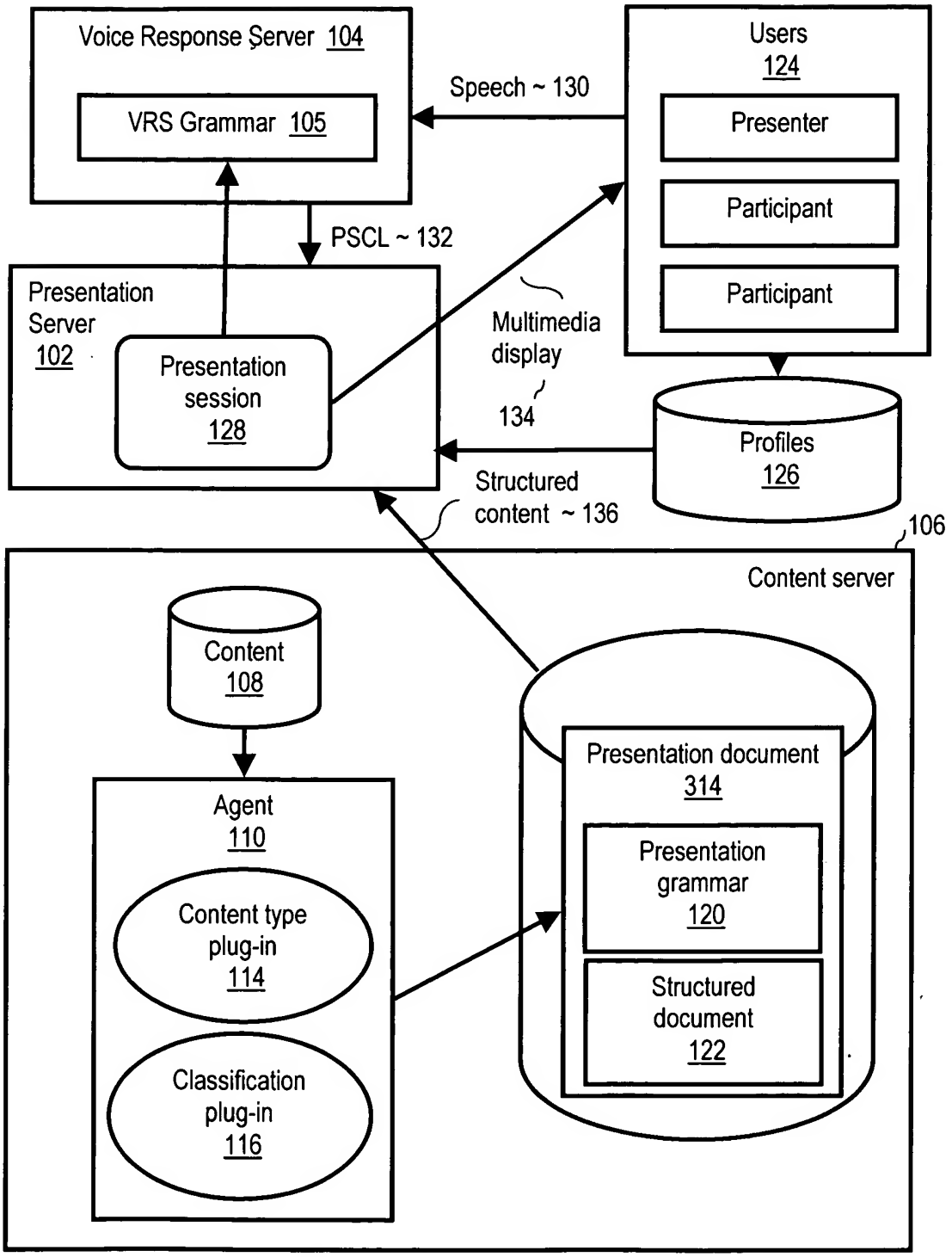

Voice Response Server 104
VRS Grammar 105
Speech ~ 130
Users
124
Presenter
Participant
Participant
PSCL ~ 132
Presentation
Server
102
Presentation
session
128
Multimedia
display
134
Profiles
126
Structured
content ~ 136
106
Content server
Content
108
Agent
110
Content type
plug-in
114
Classification
plug-in
116
Presentation document
314
Presentation
grammar
120
Structured
document
122

FIG 1

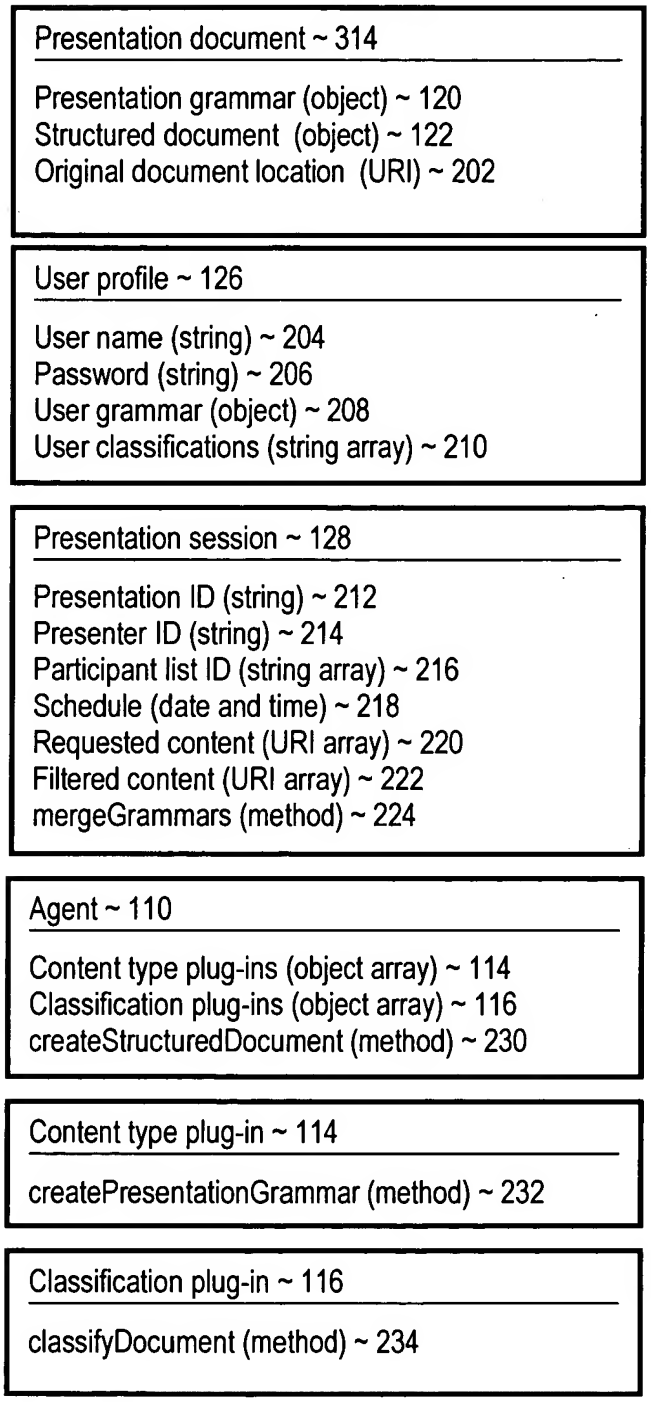

Presentation document ~ 314
Presentation grammar (object) ~ 120
Structured document (object) ~ 122
Original document location (URI) ~ 202
User profile ~ 126
User name (string) ~ 204
Password (string) ~ 206
User grammar (object) ~ 208
User classifications (string array) ~ 210
Presentation session ~ 128
Presentation ID (string) ~ 212
Presenter ID (string) ~ 214
Participant list ID (string array) ~ 216
Schedule (date and time) ~ 218
Requested content (URI array) ~ 220
Filtered content (URI array) ~ 222
mergeGrammars (method) ~ 224
Agent ~ 110
Content type plug-ins (object array) ~ 114
Classification plug-ins (object array) ~ 116
createStructuredDocument (method) ~ 230
Content type plug-in ~ 114
createPresentationGrammar (method) ~ 232
Classification plug-in ~ 116
classifyDocument (method) ~ 234

FIG 2

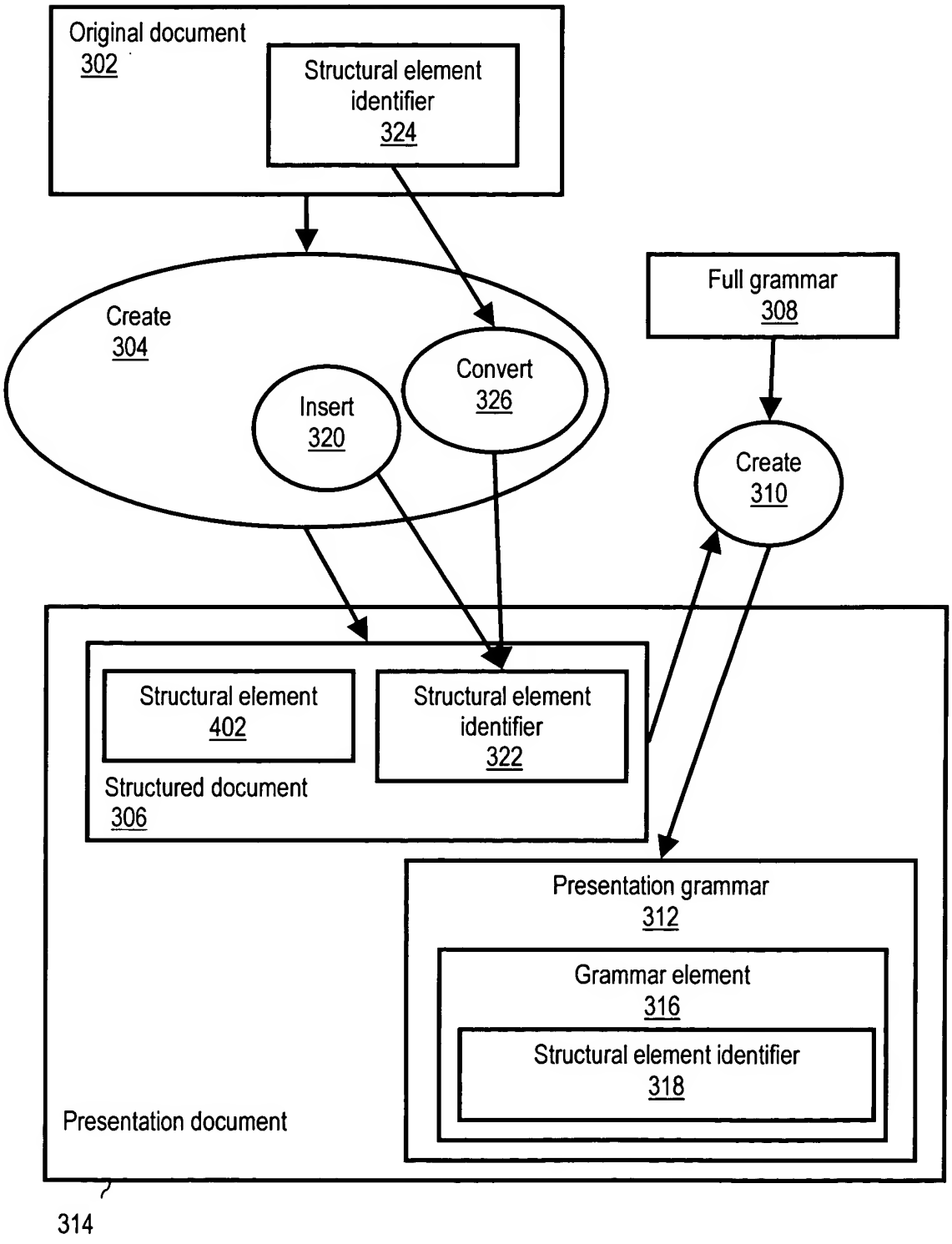

Original document
302
Structural element identifier
324
Create
304
Insert
320
Convert
326
Full grammar
308
Create
310
Structural element
402
Structural element identifier
322
Structured document
306
Presentation grammar
312
Grammar element
316
Structural element identifier
318
Presentation document
314

FIG 3

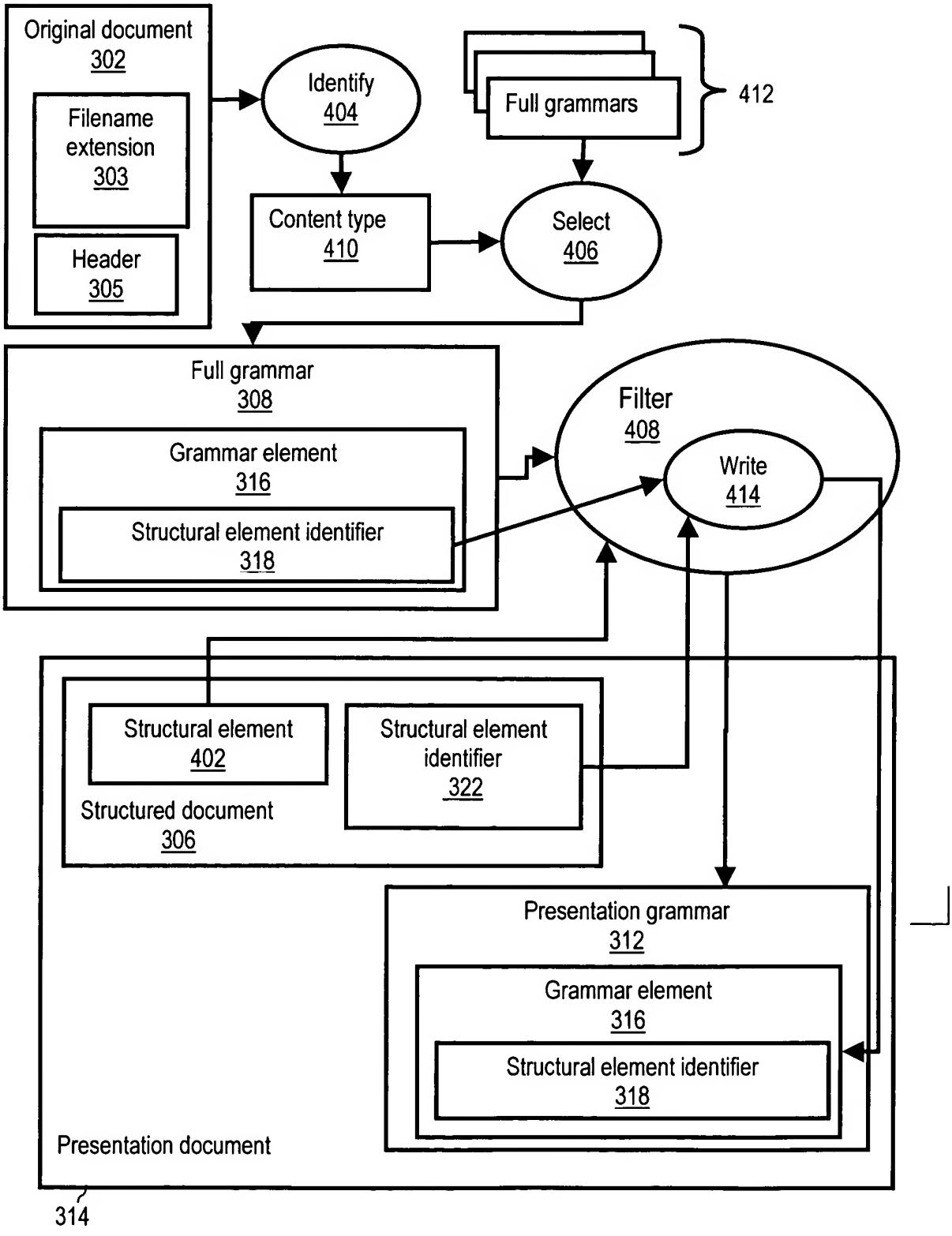

Original document
302
Filename extension
303
Header
305
Identify
404
Full grammars
412
Content type
410
Select
406
Full grammar
308
Grammar element
316
Structural element identifier
318
Filter
408
Write
414
Structural element
402
Structured document
306
Structural element identifier
322
Presentation grammar
312
Grammar element
316
Structural element identifier
318
Presentation document
314

FIG 4

Full Grammar 308				
Content Type 410	Key Phrase 516	Presentation Action Identifier 518	Structural Element Identifier 318	Parameter 520
WP	page down	PgDn	<page>	null
WP	page up	PgUp	<page>	null
WP	go to page	goToPage	<page >	integer
WP	next paragraph	nextParagraph	<paragraph>	null
WP	go to heading	nextHeading	<heading>	string
WP	previous bullet	prevBullet	<bullet>	null
WP	go to subtitle	goToSubtitle	<subtitle>	string

502
504
506
508
510
512
514

FIG 5

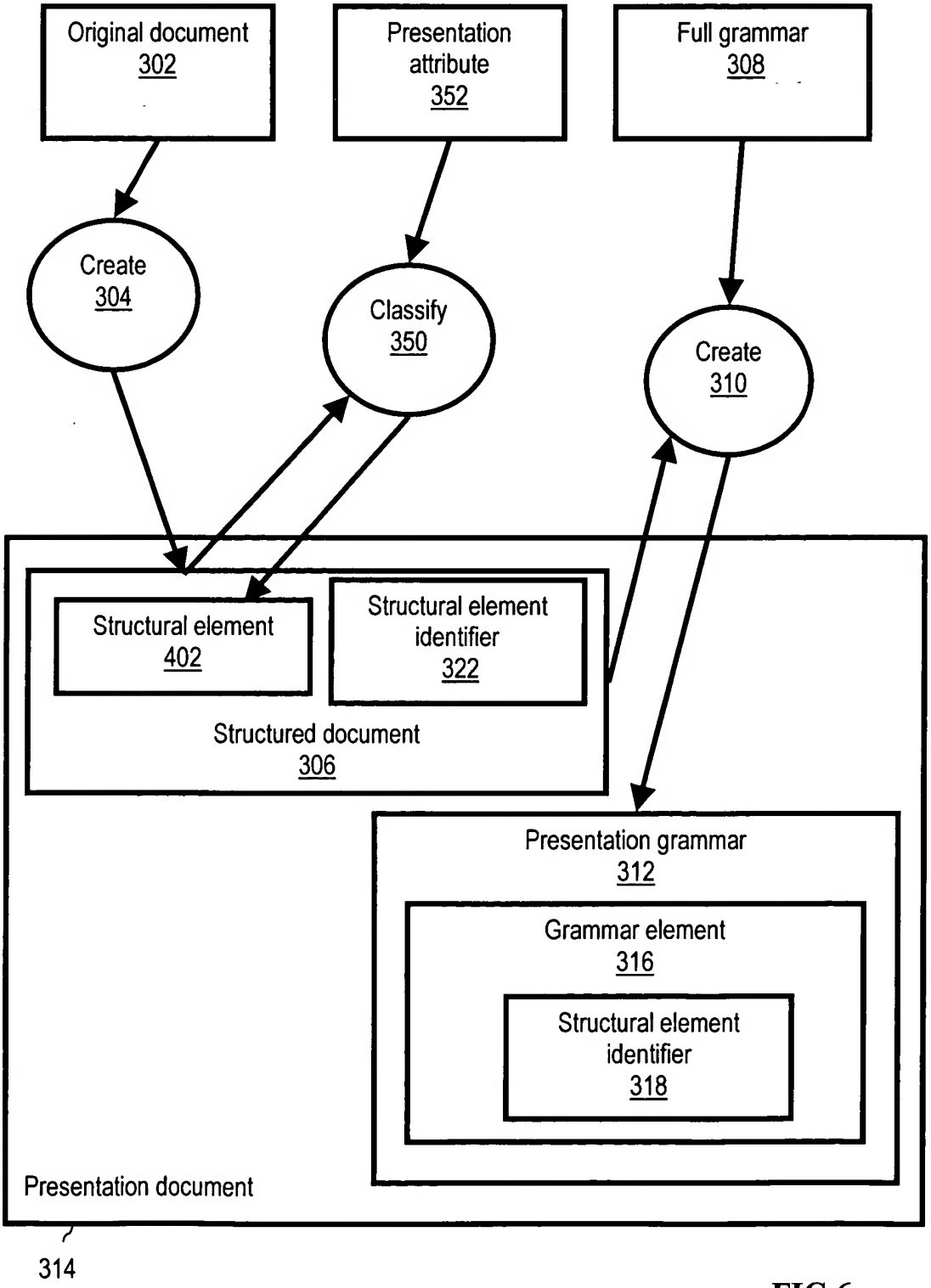

Original document
302
Presentation attribute
352
Full grammar
308
Create
304
Classify
350
Create
310
Structural element
402
Structural element identifier
322
Structured document
306
Presentation grammar
312
Grammar element
316
Structural element identifier
318
Presentation document
314

FIG 6

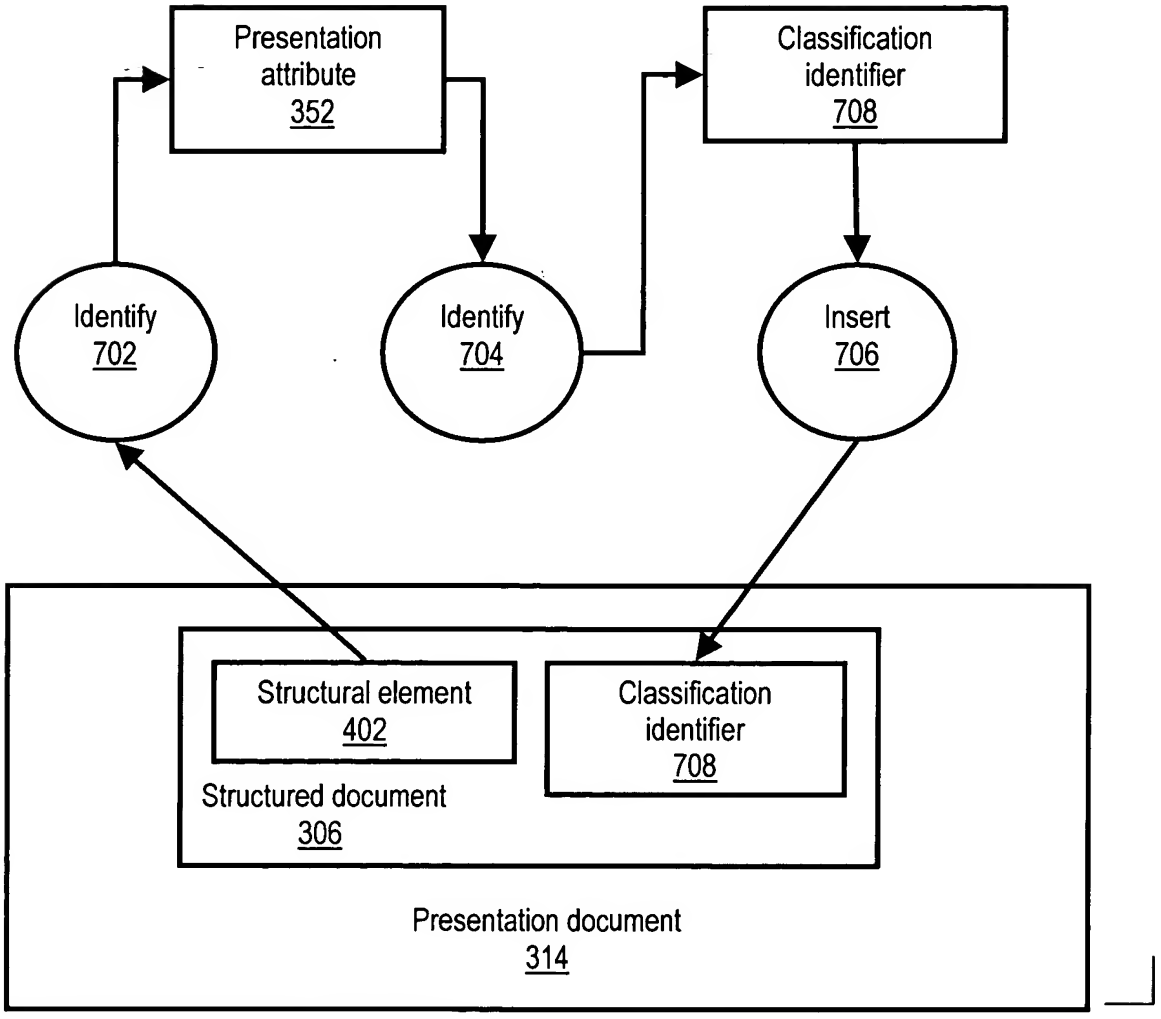
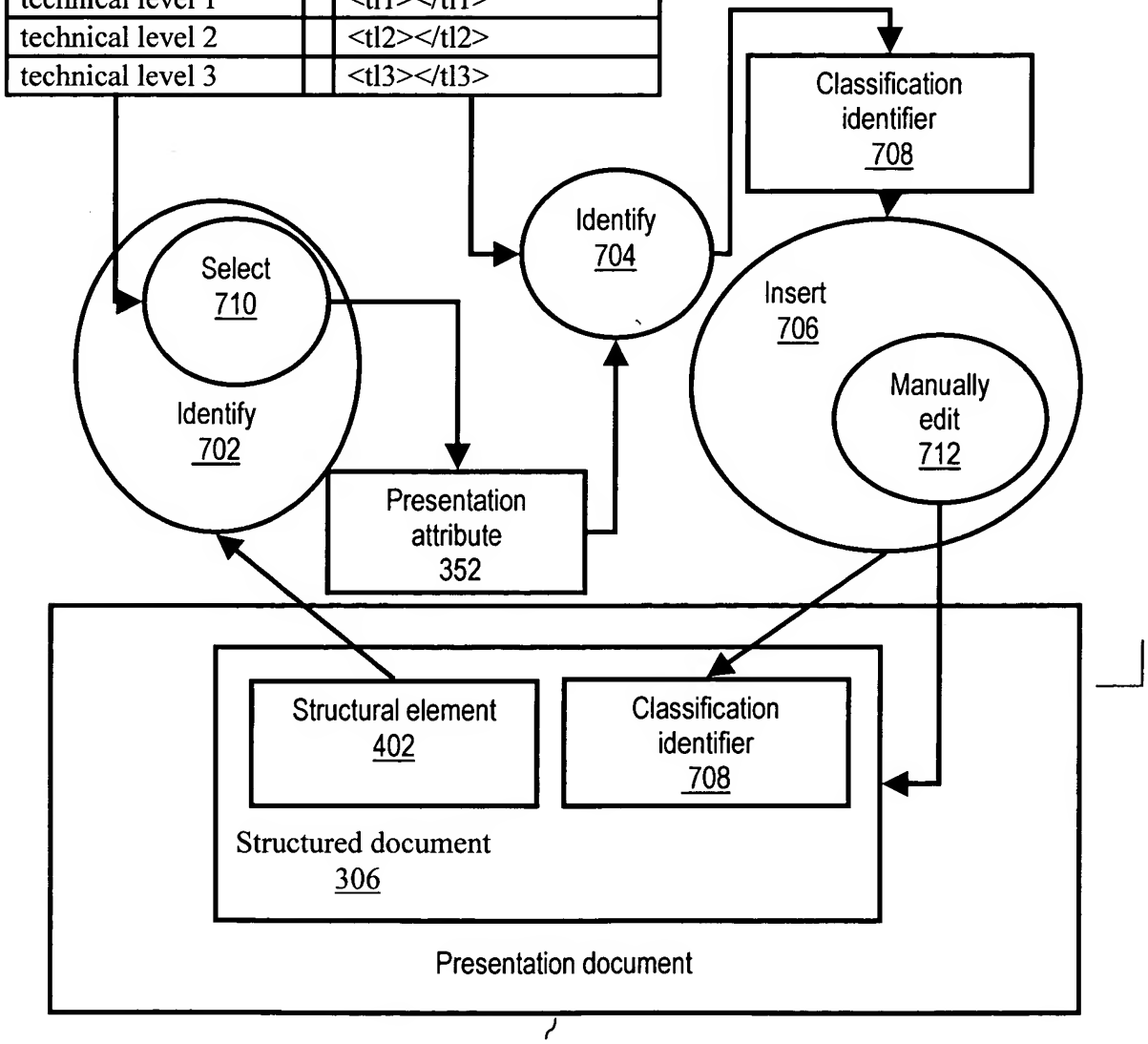

Presentation attribute 352
Classification identifier 708
Identify 702
Identify 704
Insert 706
Structural element 402
Classification identifier 708
Structured document 306
Presentation document 314

FIG 7

Presentation attribute list ~ 712		
Presentation Attributes ~ 352		**Classification IDs ~ 708**
marketing department		<mkt> </mkt>
finance department		<fin></fin>
law department		<law></law>
manufacturing dept		<mfr></mfr>
R&D department		<rd></rd>
security level 1		<sl1></sl1>
security level 2		<sl2></sl2>
security level 3		<sl3></sl3>
technical level 1		<tl1></tl1>
technical level 2		<tl2></tl2>
technical level 3		<tl3></tl3>



314

FIG 8

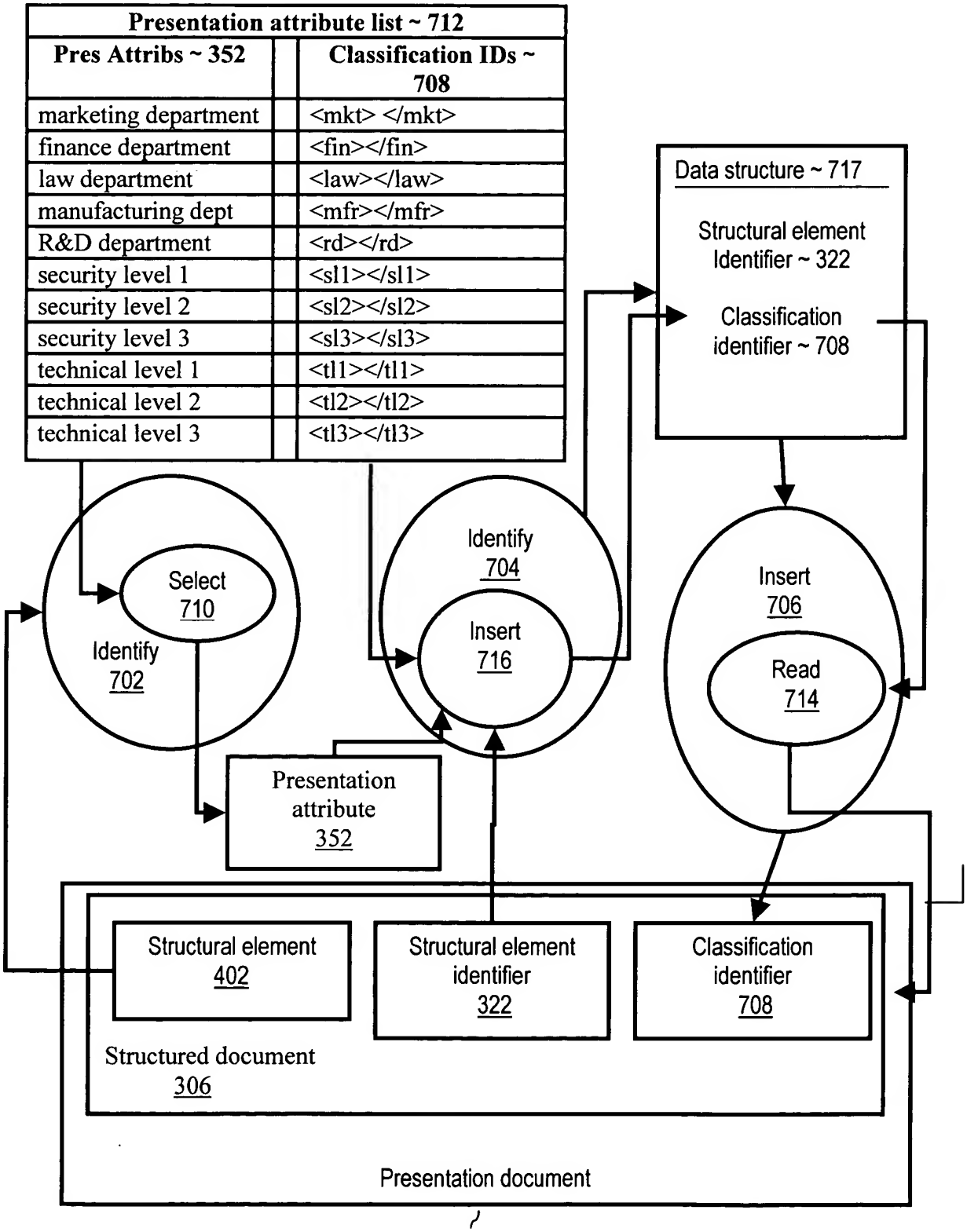

Presentation attribute list ~ 712
Pres Attribs ~ 352
Classification IDs ~ 708
marketing department
<mkt> </mkt>
finance department
<fin></fin>
law department
<law></law>
manufacturing dept
<mfr></mfr>
R&D department
<rd></rd>
security level 1
<sl1></sl1>
security level 2
<sl2></sl2>
security level 3
<sl3></sl3>
technical level 1
<tl1></tl1>
technical level 2
<tl2></tl2>
technical level 3
<tl3></tl3>
Data structure ~ 717
Structural element Identifier ~ 322
Classification identifier ~ 708
Select 710
Identify 702
Identify 704
Insert 716
Insert 706
Read 714
Presentation attribute 352
Structural element 402
Structural element identifier 322
Classification identifier 708
Structured document 306
Presentation document

FIG 9

Presentation attribute list ~ 712			
Pres Attribs 352	**Classification IDs 708**	**Keywords 802**	**Scope 804**
finance department	<fin> </fin>	focus	paragraph
finance department	<fin></fin>	accrual	page
finance department	<fin></fin>	production	line
law department	<law></law>	Festo	page
law department	<law></law>	research	page
security level 1	<sl1></sl1>	IBM	page
security level 1	<sl1></sl1>	confidential	page
security level 2	<sl2></sl2>	secret	page
technical level 1	<tl1></tl1>	API	paragraph
technical level 1	<tl1></tl1>	equation	paragraph
technical level 2	<tl2></tl2>	derivative	paragraph

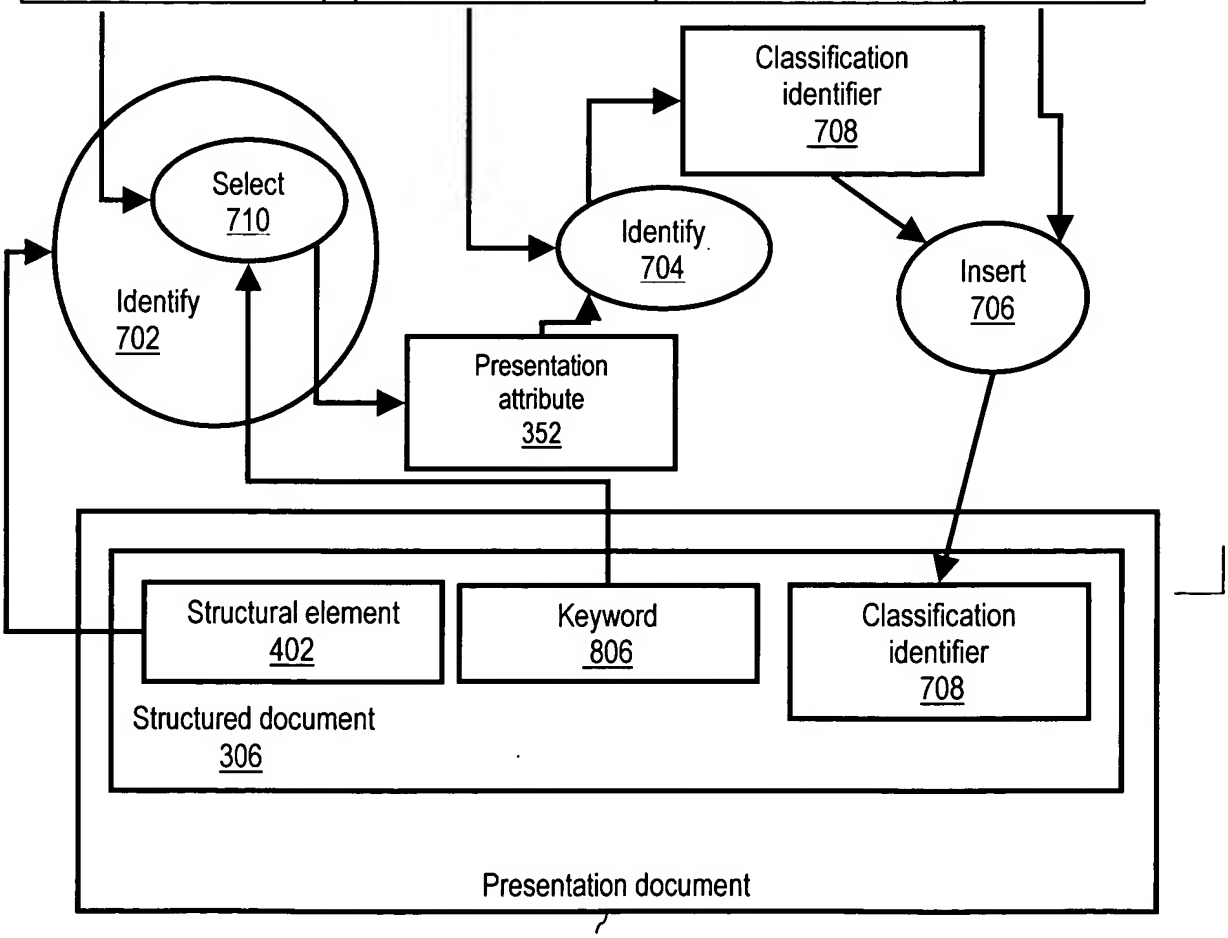


FIG 10

Presentation attribute list ~ 712			
Pres Attribs 352	**Classification IDs 708**	**Data Pattern 810**	**Scope 804**
finance department	<fin> </fin>	focus group	paragraph
finance department	<fin></fin>	cash or accrual	page
finance department	<fin></fin>	production analysis	line
law department	<law></law>	Festo estoppel	page
law department	<law></law>	legal research	page
security level 1	<sl1></sl1>	IBM only	page
security level 1	<sl1></sl1>	very confidential	page
security level 2	<sl2></sl2>	highly confidential	page
technical level 1	<tl1></tl1>	program interface	paragraph
technical level 1	<tl1></tl1>	$e=mc^2$ f=ma	paragraph
technical level 2	<tl2></tl2>	dx/dt dv/dt	paragraph

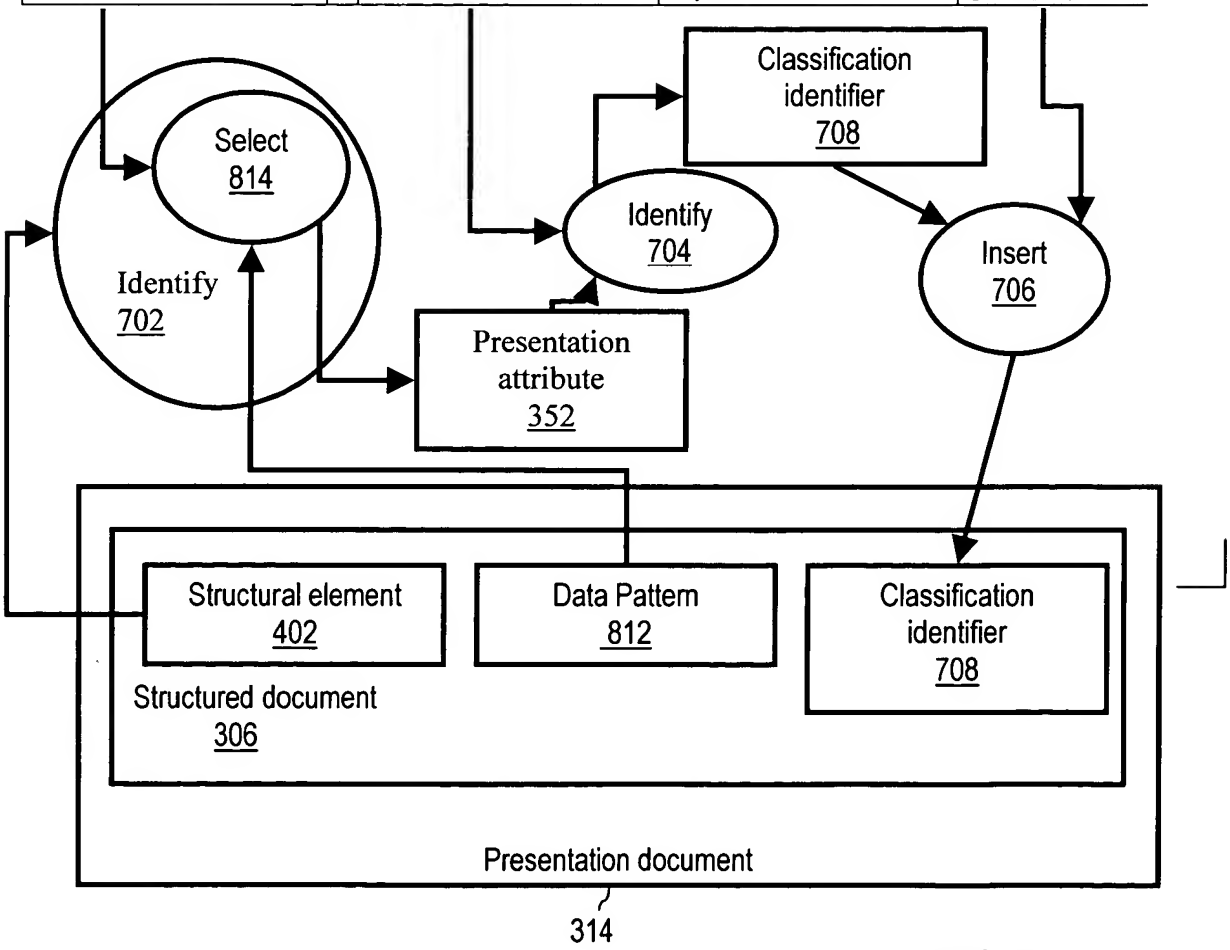


FIG. 11

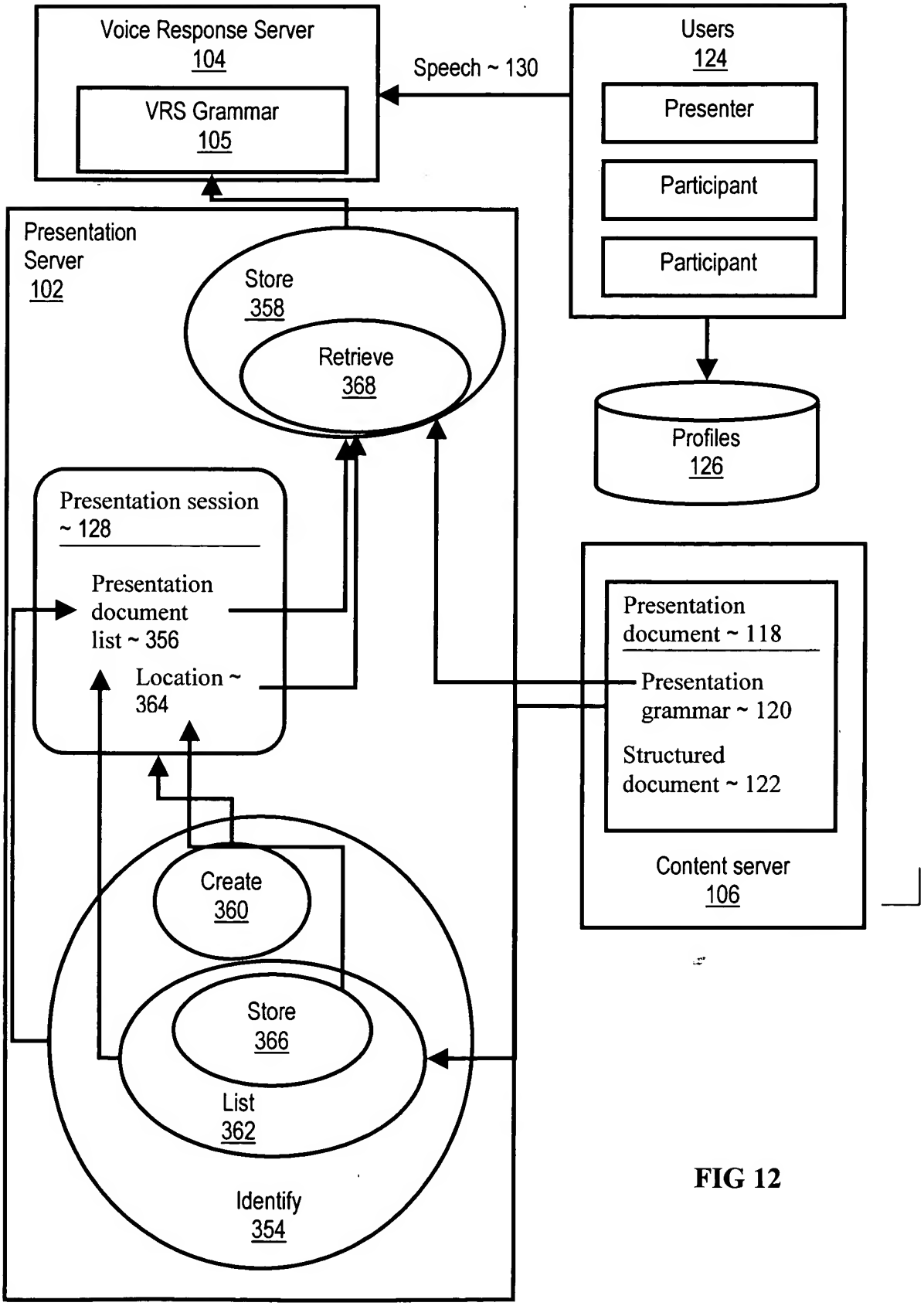

Voice Response Server
104
VRS Grammar
105
Speech ~ 130
Users
124
Presenter
Participant
Participant
Presentation
Server
102
Store
358
Retrieve
368
Profiles
126
Presentation session
~ 128
Presentation
document
list ~ 356
Location ~
364
Presentation
document ~ 118
Presentation
grammar ~ 120
Structured
document ~ 122
Content server
106
Create
360
Store
366
List
362
Identify
354

FIG 12

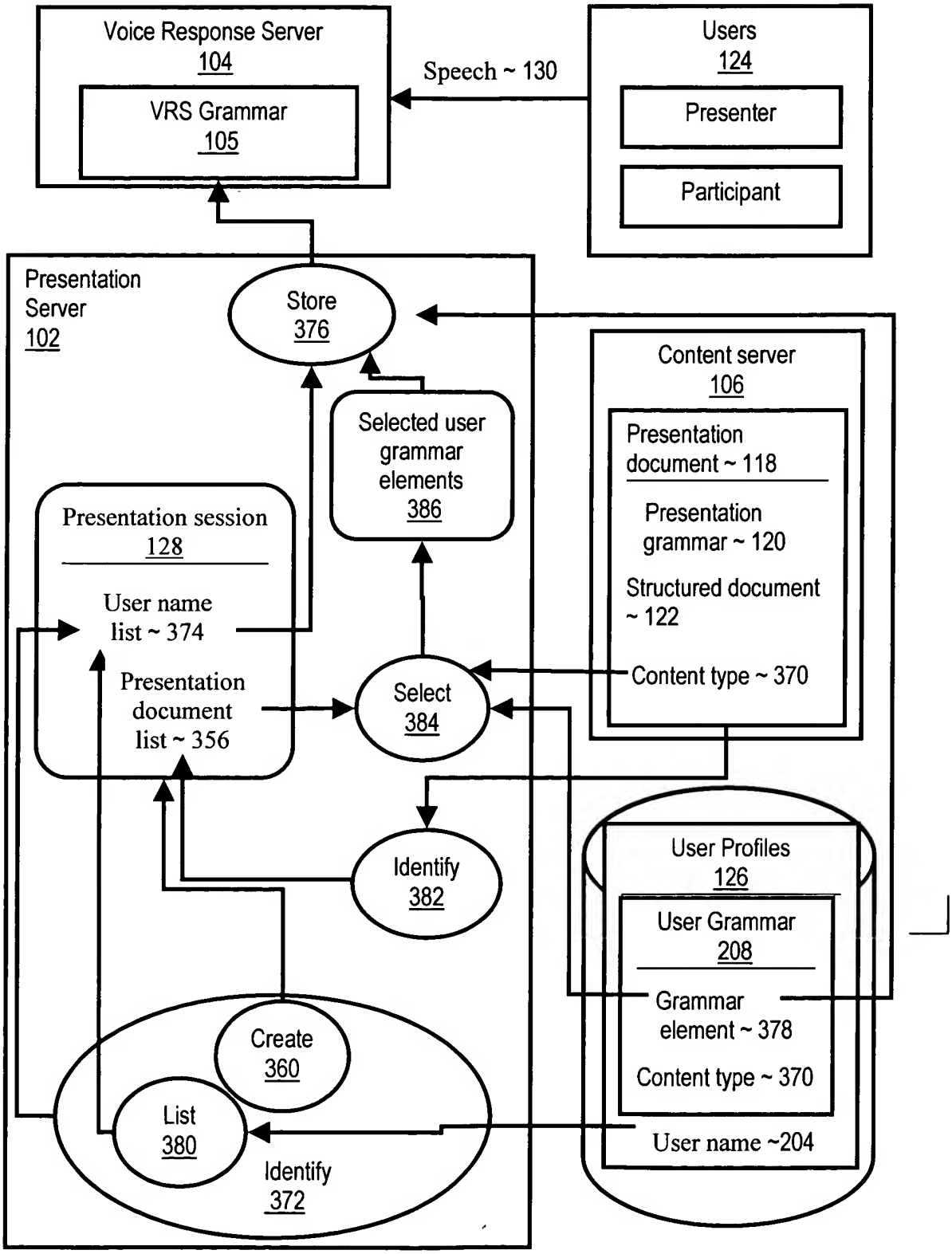

Voice Response Server
104
VRS Grammar
105
Speech ~ 130
Users
124
Presenter
Participant
Presentation
Server
102
Store
376
Content server
106
Presentation
document ~ 118
Presentation
grammar ~ 120
Structured document
~ 122
Content type ~ 370
Selected user
grammar
elements
386
Presentation session
128
User name
list ~ 374
Presentation
document
list ~ 356
Select
384
Identify
382
User Profiles
126
User Grammar
208
Grammar
element ~ 378
Content type ~ 370
User name ~204
Create
360
List
380
Identify
372

FIG 13

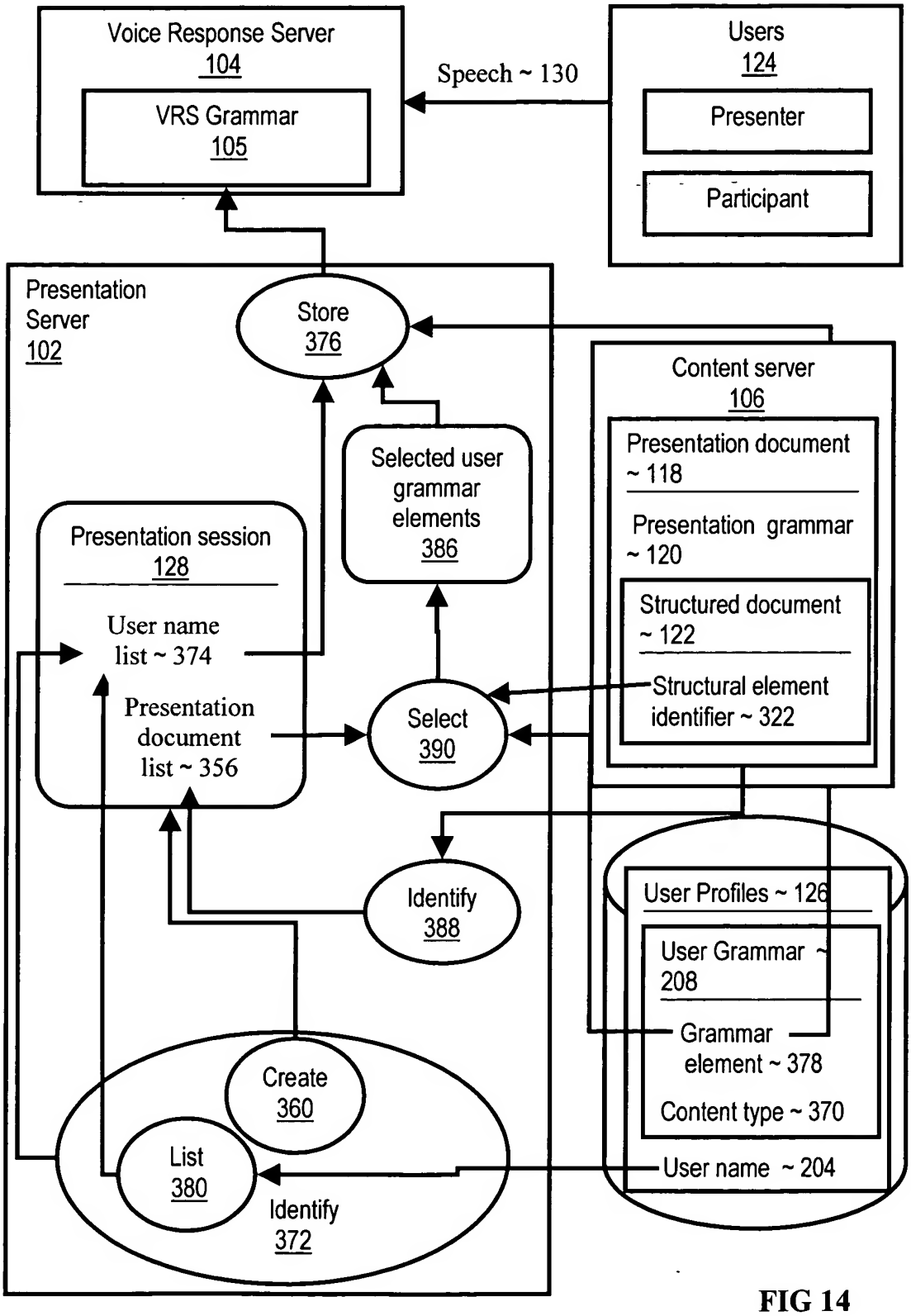

Voice Response Server
104
VRS Grammar
105
Speech ~ 130
Users
124
Presenter
Participant
Presentation
Server
102
Store
376
Content server
106
Presentation document
~ 118
Presentation grammar
~ 120
Structured document
~ 122
Structural element
identifier ~ 322
Selected user
grammar
elements
386
Presentation session
128
User name
list ~ 374
Presentation
document
list ~ 356
Select
390
Identify
388
User Profiles ~ 126
User Grammar ~
208
Grammar
element ~ 378
Content type ~ 370
User name ~ 204
Create
360
List
380
Identify
372

FIG 14

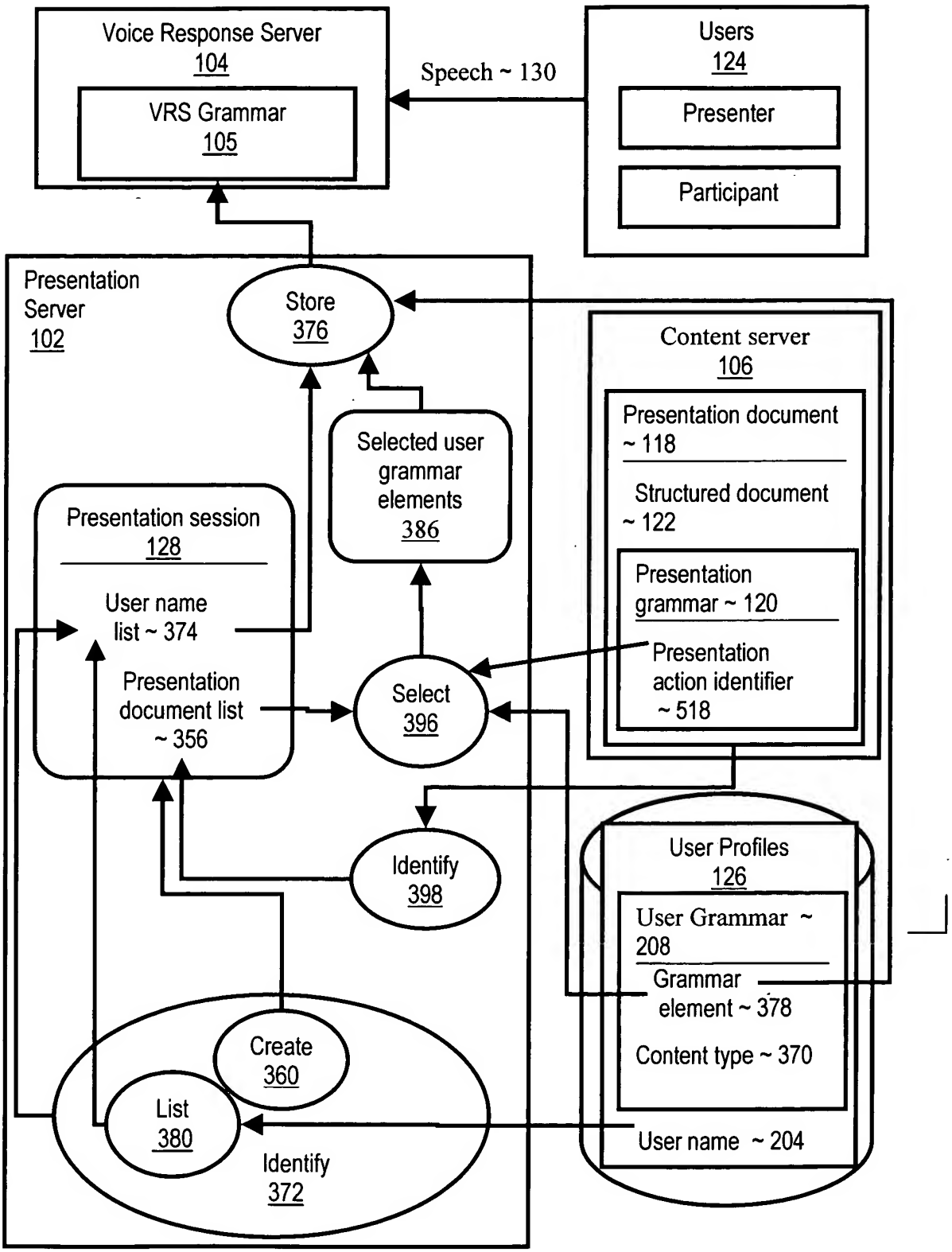

Voice Response Server
104
VRS Grammar
105
Speech ~ 130
Users
124
Presenter
Participant
Presentation
Server
102
Store
376
Content server
106
Presentation document
~ 118
Structured document
~ 122
Presentation
grammar ~ 120
Presentation
action identifier
~ 518
Selected user
grammar
elements
386
Presentation session
128
User name
list ~ 374
Presentation
document list
~ 356
Select
396
Identify
398
User Profiles
126
User Grammar ~
208
Grammar
element ~ 378
Content type ~ 370
User name ~ 204
Create
360
List
380
Identify
372

FIG 15

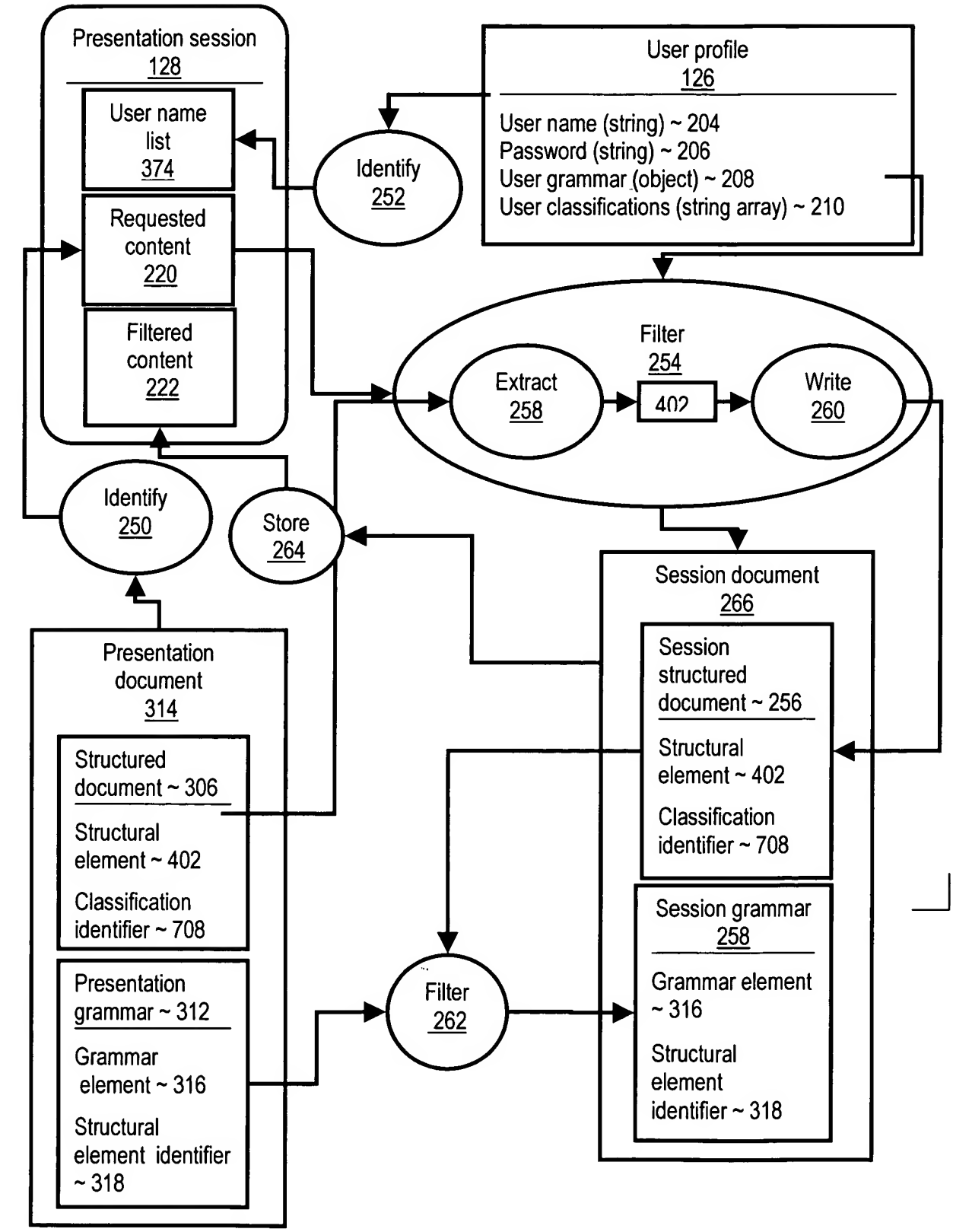

Presentation session
128
User name list
374
Requested content
220
Filtered content
222
Identify
252
User profile
126
User name (string) ~ 204
Password (string) ~ 206
User grammar (object) ~ 208
User classifications (string array) ~ 210
Filter
254
Extract
258
402
Write
260
Identify
250
Store
264
Session document
266
Session structured document ~ 256
Structural element ~ 402
Classification identifier ~ 708
Session grammar
258
Grammar element ~ 316
Structural element identifier ~ 318
Presentation document
314
Structured document ~ 306
Structural element ~ 402
Classification identifier ~ 708
Presentation grammar ~ 312
Grammar element ~ 316
Structural element identifier ~ 318
Filter
262

FIG 16

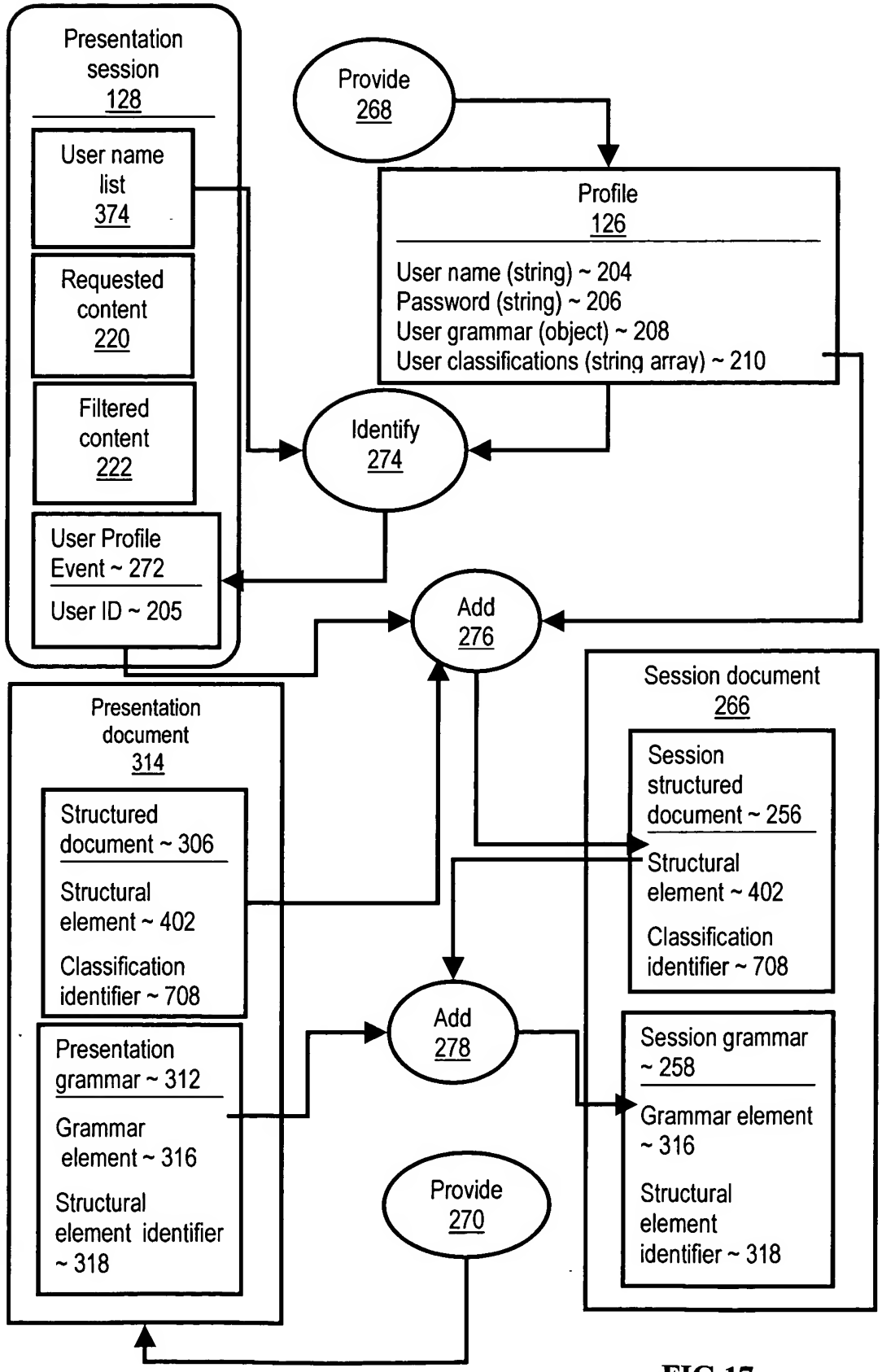

Presentation session 128
User name list 374
Requested content 220
Filtered content 222
User Profile Event ~ 272
User ID ~ 205
Provide 268
Profile 126
User name (string) ~ 204
Password (string) ~ 206
User grammar (object) ~ 208
User classifications (string array) ~ 210
Identify 274
Add 276
Presentation document 314
Structured document ~ 306
Structural element ~ 402
Classification identifier ~ 708
Presentation grammar ~ 312
Grammar element ~ 316
Structural element identifier ~ 318
Add 278
Provide 270
Session document 266
Session structured document ~ 256
Structural element ~ 402
Classification identifier ~ 708
Session grammar ~ 258
Grammar element ~ 316
Structural element identifier ~ 318

FIG 17

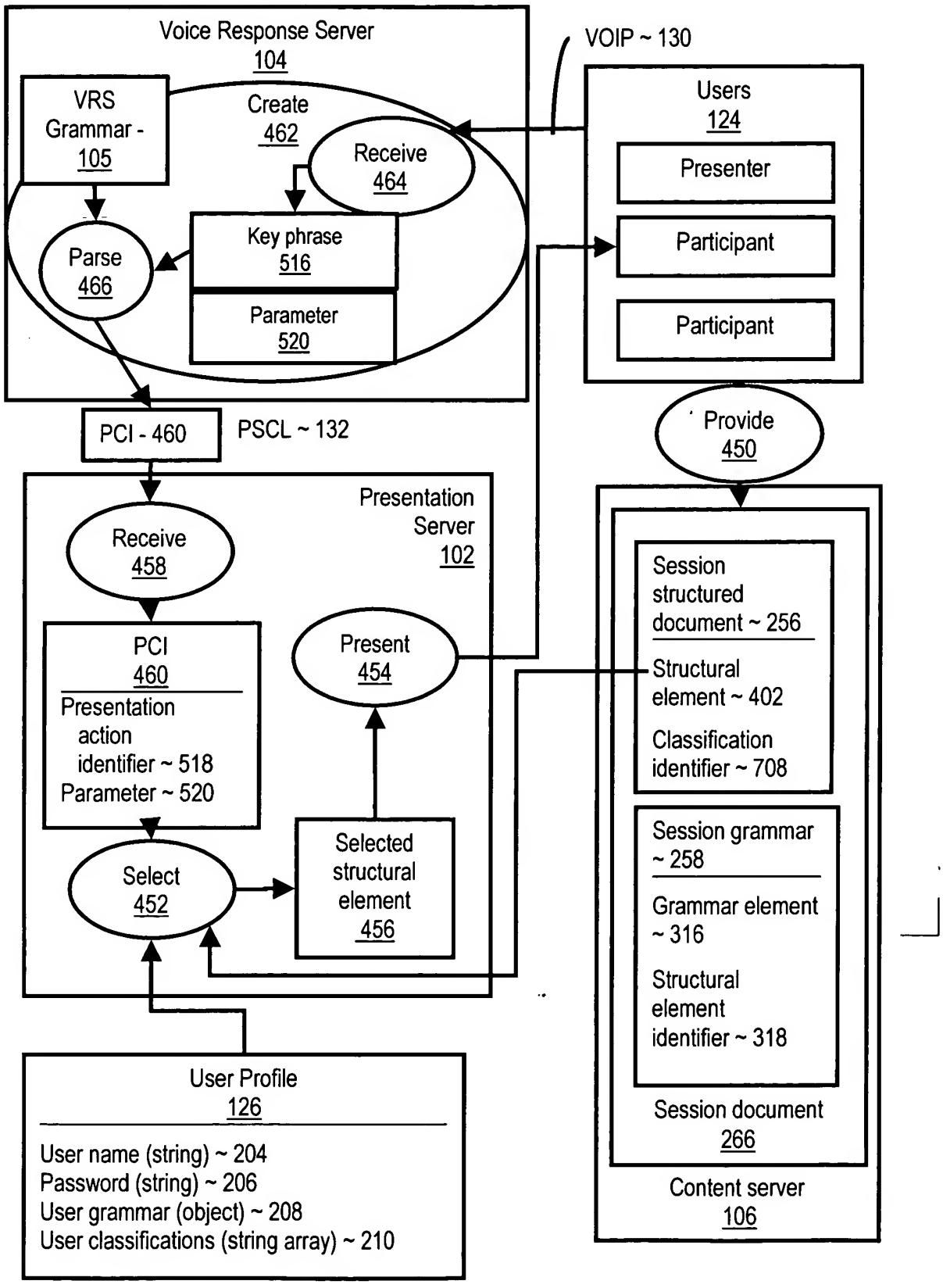

Voice Response Server
104
VRS
Grammar -
105
Create
462
Receive
464
Parse
466
Key phrase
516
Parameter
520
VOIP ~ 130
Users
124
Presenter
Participant
Participant
PCI - 460
PSCL ~ 132
Provide
450
Presentation
Server
102
Receive
458
PCI
460
Presentation
action
identifier ~ 518
Parameter ~ 520
Present
454
Select
452
Selected
structural
element
456
Session
structured
document ~ 256
Structural
element ~ 402
Classification
identifier ~ 708
Session grammar
~ 258
Grammar element
~ 316
Structural
element
identifier ~ 318
Session document
266
Content server
106
User Profile
126
User name (string) ~ 204
Password (string) ~ 206
User grammar (object) ~ 208
User classifications (string array) ~ 210

FIG 18